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Blu-ray Disc™ Player DP-UB420K

PLAYABLE DISCS	BD-ROM	Ultra HD Blu-ray/ FULL HD 3D/ BD-Video	Yes
	BD-RE/ BD-RE DL (Ver.3)	BDAV/ AVCHD/ AVCHD 3D/JPEG/ MPO	Yes
	BD-R (Ver.1.3) / BD-R DL (Ver.2)	BDAV/ AVCHD/ AVCHD 3D/ MKV/ JPEG/ MPO	Yes
	DVD	DVD-Video	Yes
	DVD-R*1/ DVD-R DL*1/ DVD-RW*1	DVD-Video/ DVD Video Recording	Yes
		AVCHD/ MKV	Yes/ Yes* (*DVD-R/ DVD-R DL)
		FLAC/ WAV/ ALAC/ DSD/ WMA/ AAC/ MP3/ AIFF	Yes (DVD-R/ DVD-R DL)
		JPEG/ MPO	Yes (DVD-R/ DVD-R DL)
	+R*1/ +R DL*1/ +RW*1	Video/ AVCHD	Yes
	CD, CD-R/ -RW	CD-DA/ DTS-CD	Yes
		MKV	Yes (CD-R/ -RW)
		FLAC/ WAV/ ALAC/ WMA/ AAC/ MP3/ AIFF	Yes (CD-R/ -RW)
		JPEG/ MPO	Yes (CD-R/ -RW)
AUDIO SYSTEM	Dolby Digital/ TrueHD		Yes (Decode and Bitstream Output*2)
	Dolby Digital Plus		Yes (Decode and Bitstream Output*2)
	DTS-HD Master Audio/ DTS-HD High Resolution Audio		Yes (Decode and Bitstream Output*2)
	Dolby Atoms/ DTS:X		Yes (Bitstream Output*2)
	FLAC		Yes (Max. 192 kHz/ 24 bit)
	WAV		Yes (Max. 384 kHz/ 32 bit)

		ALAC	Yes (Max. 96 kHz/ 32 bit (7.1ch), 176.4/192 kHz/ 32 bit (5.1ch))
		DSD (DFF, DSF)	Yes (2.8 MHz (2ch/ 5.1ch), 5.6 MHz (2ch/ 5.1ch), 11.2 MHz (2ch))
		AIFF	Yes (Max. 384 kHz/ 32 bit (2ch))
USB	Slot		Yes (2)
	Front		1 (USB 2.0 High Speed)
	Rear		1 (USB 3.0 Super Speed)
	Playback	FLAC/ WAV/ ALAC/ AIFF/ DSD (DFF, DSF)/ WMA/ AAC/ MP3	Yes (Gapless Playback : FLAC/WAV/AIFF/DSD(DFF,DSF))
		MKV/ MP4 (H.264/HEVC), TS (MPEG-2/H.264/HEVC)	Yes
		MPEG-2/ AVCHD/ AVCHD 3D	Yes
		JPEG/ MPO	Yes
HIGH QUALITY PICTURE	HCX Processor for Ultra HD Blu-ray		Yes
	HDR	HDR10+	Yes ^{*3}
		Hybrid Log Gamma(HLG)	Yes
	HDR Optimiser		Yes
	4K Up-scaling	60p/50p/ 4:4:4 (HDMI2.0)	Yes ^{*4*5}
		24p/ 25p	Yes ^{*4*5}
	4K Direct Chroma Up-scaling		Yes ^{*4}
	4K Networking (4K Video ^{*6} Playback/ 4K JPEG Playback ^{*4})		Yes
	4K VOD		Yes ^{*7}
	Picture Type Presets		(Normal/ Cinema/ Fine Cinema/ Retro Cinema/ Animation/ Live) ^{*8}
	Block/ Random/ Mosquito Noise Reduction		Yes
	Video on Demand in HD Quality		Yes
	Ultra HD Premium		Yes
	Deep Colour		Yes
	x.v.Colour		Yes ^{*9}
HIGH QUALITY SOUND		TWIN HDMI	Yes

		Pure Audio on HDMI (HDMI Low Clock Jitter Process)	Yes
		High Quality Network Audio Playback (DLNA)	Yes ^{*10} (FLAC/ WAV/ ALAC/ AIFF/ DSD/ WMA/ AAC/ MP3)
		High Clarity Sound Premium	Yes
		Digital Tube Sound	Yes (Up to 192 kHz/ 24 bit)
		Surround Re-Master	Yes ^{*11} (Up to 192 kHz/ 24 bit)
SMART FEATURE	Viewing Experience Controlled via Voice(Google Assitant/ Amazon Alexa)(Available for English)		Yes
	Remote Control		Yes (Simple)
	Subtitle Position/Brightness Adjustment		Yes
	HDAVI Control 5 (VIERA Link)		Yes
	Mirroring with Smartphone/Tablet		Yes ^{*12}
	Internet Apps		Yes ^{*13}
	Web Browser		Yes
	Wireless LAN System		Yes (Built-in) IEEE802.11 a/b/g/n/ac
	Network Contents Playback (Client & Renderer)		Yes ^{*10}
	External HDD Playback		Yes ^{*14}
	Network Drive Access		Yes
TERMINAL	BD-Live TM		Yes ^{*15}
	HDMI Output		Yes (2)
	Optical Output		Yes
		LAN (Ethernet) Terminal	Yes (for Ultra HD Blu-ray, Network Contents Playback ^{*10} , BD-Live TM *15 , Internet Apps ^{*13} and Firmware Update)
OTHERS	Video System		NTSC

Power Supply		AC 120 V, 60 Hz
Power Consumption	Normal Use	29 W
	Standby (Quick Start Off)	1 W
	Standby (Quick Start Off)-Network Standby Off	0.3 W
DIMENSIONS, WEIGHT	Dimensions (W x H x D)	Approx. 320 x 45 x 197 mm*17
	Weight	1.4 kg
NOTE		<p>*1 Discs recorded and finalized on recording devices.</p> <p>*2 HDMI connections and compatible equipment (e.g. AV Receiver) required.</p> <p>*3 Enabled by software update</p> <p>*4 For 4K Up-scaling playback a TV with same resolution is required.</p> <p>*5 For 4K/60p video, a high speed HDMI cable supporting 18 Gbps bandwidth is required.</p> <p>*6 MP4/ MKV/ TS (H.264/ HEVC) Up to 3840x2160 25p/ 30p, 4096x2160 24p</p> <p>*7 Some network content services may not be available in your country.</p> <p>*8 Ultra HD Blu-ray and Photo (JPG/ MPO) are not supported.</p> <p>*9 This function is effective only when reproducing AVCHD data recorded with x.v.Color technology. The function cannot be used with BD-ROM or DVD-ROM discs. HDMI connection is required.</p> <p>*10 File formats that are not supported by your Network Contents server (DLNA compatible server, etc.) cannot be played.</p> <p>*11 CD sampling is done at 176.4/88.2 kHz.</p> <p>*12 A device that supports the Mirroring function and Android™ ver. 4.2 or higher is required.</p> <p>*13 Requires broadband Internet service.</p> <p>*14 The external HDD with capacities of 4TB or less in processing NTFS/ FAT32 data is supported. Playback is not possible with some external hard disk drives.</p> <p>*15 To enjoy content, you will need to insert a USB (1GB or more of free space/ sold separately). Requires broadband Internet service.</p> <p>*16 The analog 2-channel output terminal can also be used as an analog 7.1-channel output terminal.</p> <p>*17 Excluding the projecting parts.</p> <p>Specifications are subject to change without notice. All numbers given here are approximate.</p>
WARNING		<p>The recording and playback of content on this or any other device may require permission from the owner of the copyright or other such rights in that content. Panasonic has no authority to and does not grant you that permission and explicitly disclaims any right, ability or intention to obtain such permission on your behalf. It is your responsibility to ensure that your use of this or any other device complies with applicable copyright legislation in your country. Please refer to that legislation for more information on the relevant laws and regulations involved or contact the owner of the rights in the content you wish to record or playback.</p> <p>Playability may vary depending on the contents, discs and quality of the recording. For content recorded for your personal use.</p> <p>Specifications are subject to change without notice.</p>
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